OIPE JC59
AUG 25 2004
PATENT & TRADEMARK OFFICE

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Atty. Docket No.: 3121/2002 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of:	Kirk et al.	Examiner:	Not Yet Assigned
Serial No.:	10/683,611		
Filed:	October 10, 2003	Group Art Unit:	1645
Entitled:	Methods and Compositions for Stable Transgenic Plant Pharmaceuticals and Their Use as Contraceptives	Conf. No.:	5103

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8a

I hereby certify that this correspondence (and any paper or fee referred to as being enclosed) is being deposited with the United States Post Office as First Class Mail on the date indicated below in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Kathleen M. Williams
Name of Person Mailing Paper

Signature of Person Mailing Paper

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL LETTER

Enclosed for filing in the above-identified patent application, please find the following documents:

1. Information Disclosure Statement;
2. Form PTO-1449;
3. Copies of Cited References; and
4. Return Post Card.

The Commissioner for Patents is hereby authorized to charge any fees to Deposit Account No. 16-0085, Reference 3121/2002. A duplicate of this transmittal letter is enclosed for this purpose.

Respectfully submitted,

Date: 8/23/04

Name: Kathleen M. Williams
Registration No.: 34,380
Customer No.: 29933
Palmer & Dodge LLP
111 Huntington Avenue
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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §§§ 1.56, 1.97 AND 1.98

Dear Sir:

In accordance with the duty of disclosure under 37 CFR § 1.56, Applicant submits this Information Disclosure Statement pursuant to 37 CFR §§ 1.97 and 1.98 in the above-identified application for consideration by the Patent Office.

A listing of the cited documents, as well as, for the Examiner's convenience, copies of all U.S. Patents, foreign patent documents and non-patent literature are enclosed.

Pursuant to CFR § 1.97(b)(3), because this Statement is being submitted before the first Office Action on the merits, no fee is required.

Applicant does not intend to represent that any of the documents submitted herein are material prior art to this invention or that the list represents an exhaustive search of documents related to this invention.

Applicant respectfully requests that the documents submitted herein be considered and made of record in this application.

Date: 8/23/04

Respectfully submitted,

Name: Kathleen M. Williams
Registration No.: 34,380
Customer No.: 29933
Palmer & Dodge LLP
111 Huntington Avenue
Boston, MA 02199-7613
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PTO Form 1449 U.S. Department of Commerce
Patent and Trademark Office

INFORMATION DISCLOSURE STATEMENT

Attorney Docket No.	Serial No.
3121/2002	10/683,611

Applicant(s):. Kirk et al.

Filing Date: October 10, 2003 Group: 1645

U.S. PATENT DOCUMENTS

Examiner Initial		Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
	1	4,956,282	09/11/1990	Goodman et al.	435	69.51	07/29/1985
	2	5,484,719	01/16/1996	Lam et al.	435	172.3	11/23/1993
	3	5,679,880	10/21/1997	Curtiss, III et al.	800	205	06/01/1995
	4	5,686,079	11/11/1997	Curtiss, III et al.	424	234.1	06/01/1995
	5	US2002/0006411	01/17/2002	Arntzen et al.	424	192.1	08/09/2001

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Publication Date	Country	Class	Subclass	Translation	
							YES	NO
	6	WO 86/06076	10/23/1986	PCT				
	7	WO 99/65940	12/23/1999	PCT				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

	8	International Search Report for PCT/US02/11693 (10/23/2002)
	9	Arakawa, T., et al., "Suppression of Autoimmune Diabetes by a Plant-Delivered Cholera Toxin B Subunit-Human Glutamate Decarboxylase Fusion Protein," *Transgenics* 3:51-60 (1999)
	10	Domansky, N., "Transgenic plants as edible vaccines – reality and future prospects," *Biopolimery I Kletka.* 15:5-9 (1999)
	11	Epifano, O. et al., "Biology and Structure of the Zona Pellucida: a Target for Immunocontraception," *Reprod. Fertil. Dev.*, 6:319-330 (1994)
	12	Fitchen, J., et al., "Plant virus expressing hybrid coat protein with added murine epitope elicits autoantibody response," *Vaccine* 13(12):1051-1057 (1995)
	13	Haq, T., et al., "Oral Immunization with a Recombinant Bacterial Antigen Produced in Transgenic Plants," *Science* 268:714-716 (1995)
	14	Larrick, J.W., et al., "Production of antibodies in transgenic plants," *Res. Immunol.* 149:603-608 (1998)

EXAMINER	DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

**Copies of references not provided at the time of this submission.

USPTO Form 1449 U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT	Attorney Docket No. 3121/2002	Serial No. 10/683,611
	Applicant(s):. Kirk et al.	
	Filing Date: October 10, 2003	Group: 1645

U.S. PATENT DOCUMENTS

Examiner Initial		Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Publication Date	Country	Class	Subclass	Translation	
							YES	NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

	15	Mason, H., et al., "Expression of Norwalk virus capsid protein in transgenic tobacco and potato and its oral immunogenicity in mice," *Proc. Natl. Acad. Sci. USA* 93:5335-5340 (1996)
	16	Mason, H., et al., "Edible vaccine protects mice against Escherichia coli heat-labile enterotoxin (LT): potatoes expressing a synthetic LT-B gene," *Vaccine* 16(13):1336-1343 (1998)
	17	Mason, H., et al., "Transgenic plants as vaccine production systems," *Trends in Biotechnology* 13(9):388-392 (1995)
	18	Mestecky, J., et al., "Routes of Immunization and Antigen Delivery Systems for Optimal Mucosal Immune Responses in Humans," *Behring Inst. Mitt.*, 98:33-43 (1997)
	19	Ogra, P., et al., "Vaccination Strategies for Mucosal Immune Responses," *Clin. Micro. Rev.* 14(2):430-445 (2001)
	20	Prasad, S.V., et al., "Molecular biology approaches to evaluate species variation in immunogenicity and antigenicity of zona pellucida proteins," *J. Reprod. Fert. Supp.* 50:143-149 (1996)
	21	Ruedl, C., et al., "Features of Oral Immunization," *Int. Arch Allergy Immunol.* 108:334-339 (1995)
	22	Stöger, E., et al., "Ceral crops as viable production and storage systems for pharmaceutical scFv antibodies," *Plant Molecular Biol.* 42:583-590 (2000)
	23	Yu, J., et al., "Assembly of Cholera Toxin-Antigen Fusion Proteins in Transgenic Potato," *Transgenics* 3(2-4):153-162 (2001)
	24	Tacket, C., et al., "Immunogenicity in humans of a recombinant bacterial antigen delivered in a transgenic potato," *Nature Medicine* 4(5):607-609 (1998)
	25	Smith, G., et al., "Plant-derived immunocontraceptive vaccines," *Reprod. Fertil. Dev.* 9:85-89 (1997)

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